Jones & Stokes

DATA FORM
ROUTINE WETLAND DETERMINATION

Project/Site:	Kings Beach Commercial Core Improvement Project	State:	California
Applicant/Owner:	Placer County Department of Public Works	County:	Placer
Investigator(s):	C. Voigt, J. Cook	S/T/R	19/16N/18E
Date:	09/19/06		
Do normal circumstances exist on the site?	☑ YES ☐ NO	Community ID:	Ruderal
Is the site significantly disturbed (atypical situation)?	☐ YES ☑ NO	Transect ID:	DW-6
Is the area a potential problem area?	☐ YES ☑ NO	Plot ID:	DP-4
(If needed, explain below)			

VEGETATION

Dominant Plant Species	Strata	% Rel. Cover	Indicator	Associate Plant Species	Strata	% Rel. Cover	Indicator
Elymus lanceolatus	H	50	NI*				
Elytrigia repens	H	50	NI*				

Percent of dominants that are OBL, FACW, or FAC (excluding FAC-): 0%

Total vegetation cover 50 %

- ☐ Morphological Adaptations
- ☐ Physiological/Reproductive Adaptations
- ☐ Visual Observation of Plant Species Growing in Areas of Prolonged Inundation/Saturation
- ☐ Personal Knowledge of Regional Plant Communities
- ☐ Technical Literature
- ☐ Other (explain below)

Hydrophytic Vegetation Present? ☐ YES ☑ NO

Remarks:

HYDROLOGY

Is it the growing season? ☐ YES ☑ NO

Based On:
- ☐ Soil Temp (record)
- ☑ Other (explain) data from WRCC (2006)

Typical length: 130 Days 5% = 6.5 days

Recorded Data (describe below):
- ☐ Stream, Lake, or Tide Gauge
- ☑ Aerial Photographs
- ☐ Other
- ☐ None Available

Field Observations:

Depth of Surface Water:	none	inches
Depth to Standing Water in Pit:	>18	inches
Depth to Saturated Soil:	>18	inches

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☐ Saturated Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ☐ Oxidized Rhizospheres in Upper 12 Inches
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (explain below)

Wetland Hydrology Present? ☐ YES ☑ NO

Remarks:

SOILS

Plot ID: DP-4

Map Unit Name (series and phase): Jabu stony sandy loam, mod. fine subsoil, variant, 2-9% slopes Drainage Class: Well-drained

Taxonomy (subgroup): Ultic Haploxeralfs Field observations confirm mapped type? ☑ YES ☐ NO

Is data point located within a hydric inclusion? ☐ YES ☑ NO

Profile Description

Horizon	Depth (inches)	Texture	Structure	Matrix Color (moist)	Redoximorphic Features: Abundance, Size, Contrast	Redoximorphic Features: Type, location	Redoximorphic Features: Color (moist)	Other
	0-18	vgrs		10YR 3/2	none	---	---	

Hydric Soil Indicators (check all that apply):

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions (α,α'- dipyridyl test)
- ☐ Gleyed or Low-Chroma (≤1) matrix
- ☐ Matrix Chroma ≤2 with Redoximorphic Concentrations and/or Depletions
- ☐ Mn or Fe Concretions or Nodules
- ☐ High Organic Content in Surface Layer of Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on National/Local Hydric Soils List
- ☐ Other (explain below)

Hydric Soils Present? ☐ YES ☑ NO

Remarks:

WETLAND DETERMINATION :

Hydrophytic vegetation present? ☐ YES ☑ NO

Wetland hydrology present? ☐ YES ☑ NO

Hydric soils present? ☐ YES ☑ NO Is the sampling point within a wetland? ☐ YES ☑ NO

Remarks:

Texture and Rock Fragment Content

Texture

cos - coarse sand
s - sand
fs - fine sand
vfs - very fine sand
lcos - loamy coarse sand
ls - loamy sand
lfs - loamy fine sand
lvfs - loamy very fine sand
cosl - coarse sandy loam
sl - sandy loam
fsl - fine sandy loam
vfsl - very fine sandy loam
l - loam
sil - silt loam
si - silt
scl - sandy clay loam
cl - clay loam
sicl - silty clay loam
sc - sandy clay
sic - silty clay
c - clay

Rock Fragments

gr - gravelly
vgr - very gravelly
xgr - extremely gravelly
cb - cobbly
vcb - very cobbly
xcb - extremely cobbly
st - stony
vst - very stony
xst - extremely stony

Redoximorphic Feature Morphology

Abundance

f - few
c - common
m - many

Size

1 - fine (<2mm)
2 - medium 2–5mm)
3 - coarse (5–20mm)
4 - very coarse (20–76mm)
5 - extremely coarse (>76mm)

Contrast

f - faint
d - distinct
p - prominent

Type

Fe-x - iron concentration (soft mass)
Fe-nc - iron nodule or concretion
Mn-x - manganese concentration (soft mass)
Mn-nc - manganese nodule or concretion
d - depletion

Location

mat - soil matrix
ped - ped surface
por - soil pores
otr - other

Jones & Stokes

DATA FORM
ROUTINE WETLAND DETERMINATION

Project/Site:	Kings Beach Commercial Core Improvement Project	State:	California
Applicant/Owner:	Placer County Department of Public Works	County:	Placer
Investigator(s):	C. Voigt, J. Cook	S/T/R	19/16N/18E
Date:	09/19/06		

Do normal circumstances exist on the site?	☑ YES	☐ NO	Community ID:	Depressional Wetland
Is the site significantly disturbed (atypical situation)?	☐ YES	☑ NO	Transect ID:	DW-2
Is the area a potential problem area?	☐ YES	☑ NO	Plot ID:	DP-5
(If needed, explain below)				

VEGETATION

Dominant Plant Species	Strata	% Rel. Cover	Indicator	Associate Plant Species	Strata	% Rel. Cover	Indicator
Scirpus americanus	H	30	OBL				
Eleocharis pauciflora	H	70	OBL				

Percent of dominants that are OBL, FACW, or FAC (excluding FAC-): 100% Total vegetation cover 80 %

- ☐ Morphological Adaptations
- ☐ Physiological/Reproductive Adaptations
- ☐ Visual Observation of Plant Species Growing in Areas of Prolonged Inundation/Saturation
- ☐ Personal Knowledge of Regional Plant Communities
- ☐ Technical Literature
- ☐ Other (explain below)

Hydrophytic Vegetation Present? ☑ YES ☐ NO

Remarks:

HYDROLOGY

Is it the growing season? ☐ YES ☑ NO

Based On:
- ☐ Soil Temp (record)
- ☑ Other (explain) data from WRCC (2006)

Typical length: 130 Days 5% = 6.5 days

Recorded Data (describe below):
- ☐ Stream, Lake, or Tide Gauge
- ☑ Aerial Photographs
- ☐ Other
- ☐ None Available

Field Observations:

Depth of Surface Water:	none	inches
Depth to Standing Water in Pit:	>18	inches
Depth to Saturated Soil:	>18	inches

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☐ Saturated Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☑ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ☐ Oxidized Rhizospheres in Upper 12 Inches
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (explain below)

Wetland Hydrology Present? ☑ YES ☐ NO

Remarks:

SOILS

Plot ID: DP-5

Map Unit Name (series and phase): Jabu stony sandy loam, mod. fine subsoil, variant, 2-9% slopes Drainage Class: Well-drained

Taxonomy (subgroup): Ultic Haploxeralfs Field observations confirm mapped type? ☑ YES ☐ NO

Is data point located within a hydric inclusion? ☐ YES ☑ NO

Profile Description

Horizon	Depth (inches)	Texture	Structure	Matrix Color (moist)	Redoximorphic Features: Abundance, Size, Contrast	Redoximorphic Features: Type, location	Redoximorphic Features: Color (moist)	Other
	0-4	sil		10YR 3/2	none	---	---	
	4-18	sl		10YR 4/4	c,3,p	Fe-x, mat	5YR 3/4	

Hydric Soil Indicators (check all that apply):

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions (α,α' dipyridyl test)
- ☐ Gleyed or Low-Chroma (≤1) matrix
- ☐ Matrix Chroma ≤2 with Redoximorphic Concentrations and/or Depletions
- ☐ Mn or Fe Concretions or Nodules
- ☐ High Organic Content in Surface Layer of Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on National/Local Hydric Soils List
- ☑ Other (explain below)

Hydric Soils Present? ☑ YES ☐ NO

Remarks:

The vegetation is strongly hydrophytic and the area sampled by this data point appears to have wetland hydrology. The lack of a conventional positive indicator for hydric soils is likely due to disturbance associated with the relatively recent conversion from the naturally occurring habitat (Ponderosa pine woodland) to a wetland. Over time, the regime of inundation experienced during the winter and spring as a result of snowmelt should be conducive to creating an anaerobic environment that will likely lead to the development of redoximorphic concentrations in the soils.

WETLAND DETERMINATION :

Hydrophytic vegetation present? ☑ YES ☐ NO

Wetland hydrology present? ☑ YES ☐ NO

Hydric soils present? ☑ YES ☐ NO Is the sampling point within a wetland? ☑ YES ☐ NO

Remarks:

Data point is located within a sediment catchment basin with an input (culvert) and output (overflow drain).

Texture and Rock Fragment Content

Texture

cos - coarse sand
s - sand
fs - fine sand
vfs - very fine sand
lcos - loamy coarse sand
ls - loamy sand
lfs - loamy fine sand
lvfs - loamy very fine sand
cosl - coarse sandy loam
sl - sandy loam
fsl - fine sandy loam
vfsl - very fine sandy loam
l - loam
sil - silt loam
si - silt
scl - sandy clay loam
cl - clay loam
sicl - silty clay loam
sc - sandy clay
sic - silty clay
c - clay

Rock Fragments

gr - gravelly
vgr - very gravelly
xgr - extremely gravelly
cb - cobbly
vcb - very cobbly
xcb - extremely cobbly
st - stony
vst - very stony
xst - extremely stony

Redoximorphic Feature Morphology

Abundance

f - few
c - common
m - many

Size

1 - fine (<2mm)
2 - medium 2–5mm)
3 - coarse (5–20mm)
4 - very coarse (20–76mm)
5 - extremely coarse (>76mm)

Contrast

f - faint
d - distinct
p - prominent

Type

Fe-x - iron concentration (soft mass)
Fe-nc - iron nodule or concretion
Mn-x - manganese concentration (soft mass)
Mn-nc - manganese nodule or concretion
d - depletion

Location

mat - soil matrix
ped - ped surface
por - soil pores
otr - other

Jones & Stokes

DATA FORM
ROUTINE WETLAND DETERMINATION

Project/Site:	Kings Beach Commercial Core Improvement Project	State:	California
Applicant/Owner:	Placer County Department of Public Works	County:	Placer
Investigator(s):	C. Voigt, J. Cook	S/T/R	19/16N/18E
Date:	09/19/06		
Do normal circumstances exist on the site?	☑ YES ☐ NO	Community ID:	Ponderosa pine woodland
Is the site significantly disturbed (atypical situation)?	☐ YES ☑ NO	Transect ID:	DW-2
Is the area a potential problem area?	☐ YES ☑ NO	Plot ID:	DP-6
(If needed, explain below)			

VEGETATION

Dominant Plant Species	Strata	% Rel. Cover	Indicator	Associate Plant Species	Strata	% Rel. Cover	Indicator
Grindelia camporum	H	30	FACU	*Aster eatonii*	H	10	FAC
Melica fugax	H	30	NL				
Aira caryophyllea	H	30	NL				

Percent of dominants that are OBL, FACW, or FAC (excluding FAC-): 0%

Total vegetation cover 75 %

☐ Morphological Adaptations
☐ Physiological/Reproductive Adaptations
☐ Visual Observation of Plant Species Growing in Areas of Prolonged Inundation/Saturation
☐ Personal Knowledge of Regional Plant Communities
☐ Technical Literature
☐ Other (explain below)

Hydrophytic Vegetation Present? ☐ YES ☑ NO

Remarks:

HYDROLOGY

Is it the growing season? ☐ YES ☑ NO

Based On:
☐ Soil Temp (record)
☑ Other (explain) data from WRCC (2006)

Typical length: 130 Days 5% = 6.5 days

Recorded Data (describe below):
☐ Stream, Lake, or Tide Gauge
☑ Aerial Photographs
☐ Other
☐ None Available

Field Observations:
Depth of Surface Water: none inches
Depth to Standing Water in Pit: >12 inches
Depth to Saturated Soil: >12 inches

Wetland Hydrology Indicators:

Primary Indicators:
☐ Inundated
☐ Saturated Upper 12 Inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
☐ Oxidized Rhizospheres in Upper 12 Inches
☐ Water-Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (explain below)

Wetland Hydrology Present? ☐ YES ☑ NO

Remarks:

SOILS

Plot ID: DP-6

Map Unit Name (series and phase): Jabu stony sandy loam, mod. fine subsoil, variant, 2-9% slopes Drainage Class: Well-drained

Taxonomy (subgroup): Ultic Haploxeralfs Field observations confirm mapped type? ☑ YES ☐ NO

Is data point located within a hydric inclusion? ☐ YES ☑ NO

Profile Description

Horizon	Depth (inches)	Texture	Structure	Matrix Color (moist)	Redoximorphic Features: Abundance, Size, Contrast	Redoximorphic Features: Type, location	Redoximorphic Features: Color (moist)	Other
	0-12	grsl		7.5YR 4/4	none	---	---	

Hydric Soil Indicators (check all that apply):

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions (α,α'- dipyridyl test)
- ☐ Gleyed or Low-Chroma (≤1) matrix
- ☐ Matrix Chroma ≤2 with Redoximorphic Concentrations and/or Depletions
- ☐ Mn or Fe Concretions or Nodules
- ☐ High Organic Content in Surface Layer of Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on National/Local Hydric Soils List
- ☑ Other (explain below)

Hydric Soils Present? ☐ YES ☑ NO

Remarks:

Shovel refusal at a depth of 12" due to gravel and cobbles.

WETLAND DETERMINATION :

Hydrophytic vegetation present? ☐ YES ☑ NO

Wetland hydrology present? ☐ YES ☑ NO

Hydric soils present? ☐ YES ☑ NO Is the sampling point within a wetland? ☐ YES ☑ NO

Remarks:

Texture and Rock Fragment Content

Texture

cos - coarse sand
s - sand
fs - fine sand
vfs - very fine sand
lcos - loamy coarse sand
ls - loamy sand
lfs - loamy fine sand
lvfs - loamy very fine sand
cosl - coarse sandy loam
sl - sandy loam
fsl - fine sandy loam
vfsl - very fine sandy loam
l - loam
sil - silt loam
si - silt
scl - sandy clay loam
cl - clay loam
sicl - silty clay loam
sc - sandy clay
sic - silty clay
c - clay

Rock Fragments

gr - gravelly
vgr - very gravelly
xgr - extremely gravelly
cb - cobbly
vcb - very cobbly
xcb - extremely cobbly
st - stony
vst - very stony
xst - extremely stony

Redoximorphic Feature Morphology

Abundance

f - few
c - common
m - many

Size

1 - fine (<2mm)
2 - medium 2–5mm)
3 - coarse (5–20mm)
4 - very coarse (20–76mm)
5 - extremely coarse (>76mm)

Contrast

f - faint
d - distinct
p - prominent

Type

Fe-x - iron concentration (soft mass)
Fe-nc - iron nodule or concretion
Mn-x - manganese concentration (soft mass)
Mn-nc - manganese nodule or concretion
d - depletion

Location

mat - soil matrix
ped - ped surface
por - soil pores
otr - other

Jones & Stokes

DATA FORM
ROUTINE WETLAND DETERMINATION

Project/Site:	Kings Beach Commercial Core Improvement Project	State:	California
Applicant/Owner:	Placer County Department of Public Works	County:	Placer
Investigator(s):	C. Voigt, J. Cook	S/T/R	19/16N/18E
Date:	09/20/06		
Do normal circumstances exist on the site?	☑ YES ☐ NO	Community ID:	Depressional Wetland
Is the site significantly disturbed (atypical situation)?	☐ YES ☑ NO	Transect ID:	DW-4
Is the area a potential problem area? (If needed, explain below)	☐ YES ☑ NO	Plot ID:	DP-7

VEGETATION

Dominant Plant Species	Strata	% Rel. Cover	Indicator	Associate Plant Species	Strata	% Rel. Cover	Indicator
Juncus balticus	H	35	OBL				
Eleocharis pauciflora	H	20	OBL				
Leymus triticoides	H	25	FAC+				
Aira caryophyllea	H	20	NL				

Percent of dominants that are OBL, FACW, or FAC (excluding FAC-): 75%

Total vegetation cover 60 %

☐ Morphological Adaptations
☐ Physiological/Reproductive Adaptations
☐ Visual Observation of Plant Species Growing in Areas of Prolonged Inundation/Saturation
☐ Personal Knowledge of Regional Plant Communities
☐ Technical Literature
☐ Other (explain below)

Hydrophytic Vegetation Present? ☑ YES ☐ NO

Remarks:

HYDROLOGY

Is it the growing season? ☐ YES ☑ NO

Based On:
☐ Soil Temp (record)
☑ Other (explain) data from WRCC (2006)

Typical length: 130 Days 5% = 6.5 days

Recorded Data (describe below):
☐ Stream, Lake, or Tide Gauge
☑ Aerial Photographs
☐ Other
☐ None Available

Field Observations:
Depth of Surface Water: none inches
Depth to Standing Water in Pit: >12 inches
Depth to Saturated Soil: >12 inches

Wetland Hydrology Indicators:

Primary Indicators:
☐ Inundated
☐ Saturated Upper 12 Inches
☐ Water Marks
☐ Drift Lines
☑ Sediment Deposits
☑ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
☐ Oxidized Rhizospheres in Upper 12 Inches
☐ Water-Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (explain below)

Wetland Hydrology Present? ☑ YES ☐ NO

Remarks:

SOILS

Plot ID: DP-7

Map Unit Name (series and phase): Jabu stony sandy loam, mod. fine subsoil, variant, 2-9% slopes Drainage Class:

Taxonomy (subgroup): Ultic Haploxeralfs Field observations confirm mapped type? ☑ YES ☐ NO

Is data point located within a hydric inclusion? ☐ YES ☑ NO

Profile Description

Horizon	Depth (inches)	Texture	Structure	Matrix Color (moist)	Redoximorphic Features: Abundance, Size, Contrast	Redoximorphic Features: Type, location	Redoximorphic Features: Color (moist)	Other
	0-1	sil		10YR 3/2	none	---	---	
	1-12	vgrsl		10YR 3/3	none	---	---	

Hydric Soil Indicators (check all that apply):

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions (α,α' dipyridyl test)
- ☐ Gleyed or Low-Chroma (≤1) matrix
- ☐ Matrix Chroma ≤2 with Redoximorphic Concentrations and/or Depletions
- ☐ Mn or Fe Concretions or Nodules
- ☐ High Organic Content in Surface Layer of Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on National/Local Hydric Soils List
- ☑ Other (explain below)

Hydric Soils Present? ☑ YES ☐ NO

Remarks:

The vegetation is strongly hydrophytic and the area sampled by this data point appears to have wetland hydrology. The lack of a conventional positive indicator for hydric soils is likely due to disturbance associated with the relatively recent conversion from the naturally occurring habitat (Ponderosa pine woodland) to a wetland. Over time, the regime of inundation experienced during the winter and spring as a result of snowmelt should be conducive to creating an anaerobic environment that will likely lead to the development of redoximorphic concentrations in the soils.

WETLAND DETERMINATION :

Hydrophytic vegetation present? ☑ YES ☐ NO

Wetland hydrology present? ☑ YES ☐ NO

Hydric soils present? ☑ YES ☐ NO Is the sampling point within a wetland? ☑ YES ☐ NO

Remarks:

Data point is located within a sediment detention basin with an input (culvert) at the north end of the basin and an output (overflow drain) at the south end of the basin.

Texture and Rock Fragment Content

Texture

cos - coarse sand
s - sand
fs - fine sand
vfs - very fine sand
lcos - loamy coarse sand
ls - loamy sand
lfs - loamy fine sand
lvfs - loamy very fine sand
cosl - coarse sandy loam
sl - sandy loam
fsl - fine sandy loam
vfsl - very fine sandy loam
l - loam
sil - silt loam
si - silt
scl - sandy clay loam
cl - clay loam
sicl - silty clay loam
sc - sandy clay
sic - silty clay
c - clay

Rock Fragments

gr - gravelly
vgr - very gravelly
xgr - extremely gravelly
cb - cobbly
vcb - very cobbly
xcb - extremely cobbly
st - stony
vst - very stony
xst - extremely stony

Redoximorphic Feature Morphology

Abundance

f - few
c - common
m - many

Size

1 - fine (<2mm)
2 - medium 2–5mm)
3 - coarse (5–20mm)
4 - very coarse (20–76mm)
5 - extremely coarse (>76mm)

Contrast

f - faint
d - distinct
p - prominent

Type

Fe-x - iron concentration (soft mass)
Fe-nc - iron nodule or concretion
Mn-x - manganese concentration (soft mass)
Mn-nc - manganese nodule or concretion
d - depletion

Location

mat - soil matrix
ped - ped surface
por - soil pores
otr - other

Jones & Stokes

DATA FORM
ROUTINE WETLAND DETERMINATION

Project/Site:	Kings Beach Commercial Core Improvement Project	State:	California
Applicant/Owner:	Placer County Department of Public Works	County:	Placer
Investigator(s):	C. Voigt, J. Cook	S/T/R	19/16N/18E
Date:	09/20/06		
Do normal circumstances exist on the site?	☑ YES ☐ NO	Community ID:	Ruderal
Is the site significantly disturbed (atypical situation)?	☐ YES ☑ NO	Transect ID:	DW-4
Is the area a potential problem area?	☐ YES ☑ NO	Plot ID:	DP-8
(If needed, explain below)			

VEGETATION

Dominant Plant Species	Strata	% Rel. Cover	Indicator	Associate Plant Species	Strata	% Rel. Cover	Indicator
Elytrigia repens	H	100	NI*				

Percent of dominants that are OBL, FACW, or FAC (excluding FAC-): 0%

Total vegetation cover 75 %

☐ Morphological Adaptations
☐ Physiological/Reproductive Adaptations
☐ Visual Observation of Plant Species Growing in Areas of Prolonged Inundation/Saturation
☐ Personal Knowledge of Regional Plant Communities
☐ Technical Literature
☐ Other (explain below)

Hydrophytic Vegetation Present? ☐ YES ☑ NO

Remarks:

HYDROLOGY

Is it the growing season? ☐ YES ☑ NO

Based On:
☐ Soil Temp (record)
☑ Other (explain) data from WRCC (2006)

Typical length: 130 Days 5% = 6.5 days

Recorded Data (describe below):
☐ Stream, Lake, or Tide Gauge
☑ Aerial Photographs
☐ Other
☐ None Available

Field Observations:
Depth of Surface Water: none inches
Depth to Standing Water in Pit: >10 inches
Depth to Saturated Soil: >10 inches

Wetland Hydrology Indicators:

Primary Indicators:
☐ Inundated
☐ Saturated Upper 12 Inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
☐ Oxidized Rhizospheres in Upper 12 Inches
☐ Water-Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (explain below)

Wetland Hydrology Present? ☐ YES ☑ NO

Remarks:

SOILS

Plot ID: DP-8

Map Unit Name (series and phase): Jabu stony sandy loam, mod. fine subsoil, variant, 2-9% slopes Drainage Class: Well-drained

Taxonomy (subgroup): Ultic Haploxeralfs Field observations confirm mapped type? ☑ YES ☐ NO

Is data point located within a hydric inclusion? ☐ YES ☑ NO

Profile Description

Horizon	Depth (inches)	Texture	Structure	Matrix Color (moist)	Redoximorphic Features: Abundance, Size, Contrast	Redoximorphic Features: Type, location	Redoximorphic Features: Color (moist)	Other
	0-10	xgrsl		10YR 3/3	none	---	---	

Hydric Soil Indicators (check all that apply):

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions (α,α' dipyridyl test)
- ☐ Gleyed or Low-Chroma (≤1) matrix
- ☐ Matrix Chroma ≤2 with Redoximorphic Concentrations and/or Depletions
- ☐ Mn or Fe Concretions or Nodules
- ☐ High Organic Content in Surface Layer of Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on National/Local Hydric Soils List
- ☐ Other (explain below)

Hydric Soils Present? ☐ YES ☑ NO

Remarks:

Shovel refusal at a depth of 10" due to gravel and cobbles.

WETLAND DETERMINATION :

Hydrophytic vegetation present? ☐ YES ☑ NO

Wetland hydrology present? ☐ YES ☑ NO

Hydric soils present? ☐ YES ☑ NO Is the sampling point within a wetland? ☐ YES ☑ NO

Remarks:

Texture and Rock Fragment Content

Texture

cos - coarse sand
s - sand
fs - fine sand
vfs - very fine sand
lcos - loamy coarse sand
ls - loamy sand
lfs - loamy fine sand
lvfs - loamy very fine sand
cosl - coarse sandy loam
sl - sandy loam
fsl - fine sandy loam
vfsl - very fine sandy loam
l - loam
sil - silt loam
si - silt
scl - sandy clay loam
cl - clay loam
sicl - silty clay loam
sc - sandy clay
sic - silty clay
c - clay

Rock Fragments

gr - gravelly
vgr - very gravelly
xgr - extremely gravelly
cb - cobbly
vcb - very cobbly
xcb - extremely cobbly
st - stony
vst - very stony
xst - extremely stony

Redoximorphic Feature Morphology

Abundance

f - few
c - common
m - many

Size

1 - fine (<2mm)
2 - medium 2–5mm)
3 - coarse (5–20mm)
4 - very coarse (20–76mm)
5 - extremely coarse (>76mm)

Contrast

f - faint
d - distinct
p - prominent

Type

Fe-x - iron concentration (soft mass)
Fe-nc - iron nodule or concretion
Mn-x - manganese concentration (soft mass)
Mn-nc - manganese nodule or concretion
d - depletion

Location

mat - soil matrix
ped - ped surface
por - soil pores
otr - other

Appendix B Species List

Appendix B. Plant Species Observed in Delineation Study Area

Scientific Name	Common Name	Indicator Status[a]
Abies concolor	White fir	NI
Aira caryophyllea	Silver hairgrass	NI
Alnus incana ssp. *tenuifolia*	Mountain alder	NI
Arrhenatherum elatius	Tall oatgrass	FACU
Arctostaphylos sp.	Manzanita	NA
Artemisia douglasiana	Mugwort	FACW
Aster eatonii	Eaton's aster	FAC
Calocedrus decurrens	Incense cedar	NI
Carex amplifolia	Big-leaf sedge	OBL
Cornus sericea ssp. *sericea* [*Cornus stolonifera*]	American dogwood	FACW
Dactylis glomerata	Orchard grass	FACU
Deschampsia danthonioides	Annual hairgrass	FACW
Eleocharis pauciflora	Fewflower spikerush	OBL
Elymus elymoides [*Sitanion hystrix*]	Squirreltail	FACU-
Elymus lanceolatus ssp. *lanceolatus* [*Agropyron dasystachyum*]	Thickspike wheatgrass	NI
Elytrigia repens [*Agropyron repens*]	Quackgrass	NI
Equisetum hymemale	Common scouring rush	FACW
Grindelia camporum	Common gumplant	FACU
Juncus balticus	Baltic rush	OBL
Juncus macrandus	Long-anthered rush	OBL
Juncus mexicanus	Mexican rush	FACW
Juncus xiphioides	Iris-leaved rush	OBL
Lepidium campestre	English pepper grass	NI
Leymus triticoides [*Elymus triticoides*]	Creeping wild-rye	FAC+
Lotus corniculatus	Birdsfoot trefoil	FAC
Lupinus latifolius	Broad-leaf lupine	NI
Melica fugax	Small oniongrass	NI
Pinus jeffreyi	Jeffrey pine	NI
Pinus ponderosa	Ponderosa pine	FACU
Polygonum douglasii	Douglas' knotweed	FACU
Populus balsamifera ssp. *trichocarpa*	Black cottonwood	FACW
Populus tremuloides [*Populus tremula*]	Quaking aspen	FAC+
Rosa woodsii var. *ultramontana*	Mountain Rose	FAC-
Rubus parviflorus	Thimbleberry	FAC+
Salix lucida var. *lasiandra*	Pacific willow	NI
Salix lutea	Yellow willow	OBL
Scirpus americanus	American bulrush	OBL
Scirpus microcarpus	Small-fruited bulrush	OBL
Tanacetum vulgare	Common tansy	NI

[a] Wetland indicator status obtained from Reed (1988).

Appendix C Representative Photographs

Depressional Wetland #1

Depressional Wetland #2

Depressional Wetland #3

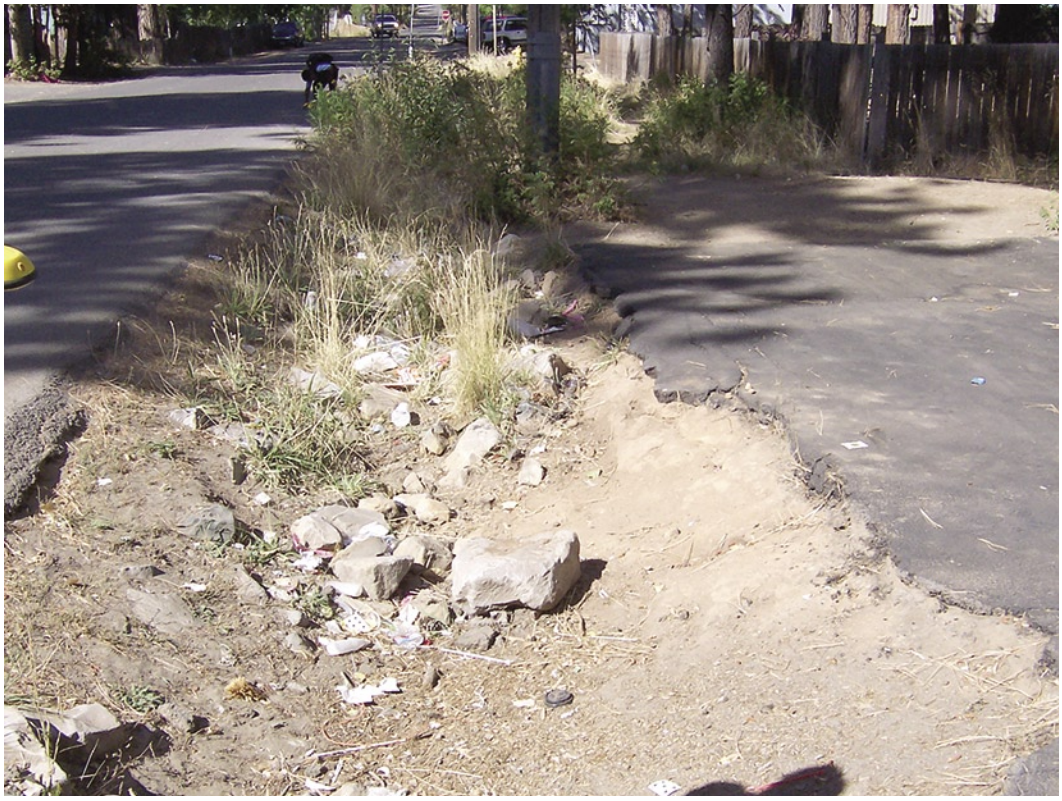
Depressional Wetland #4

Depressional Wetland #5

Depressional Wetland #6

Depressional Wetland #7

Intermittent Drainage Photo #1



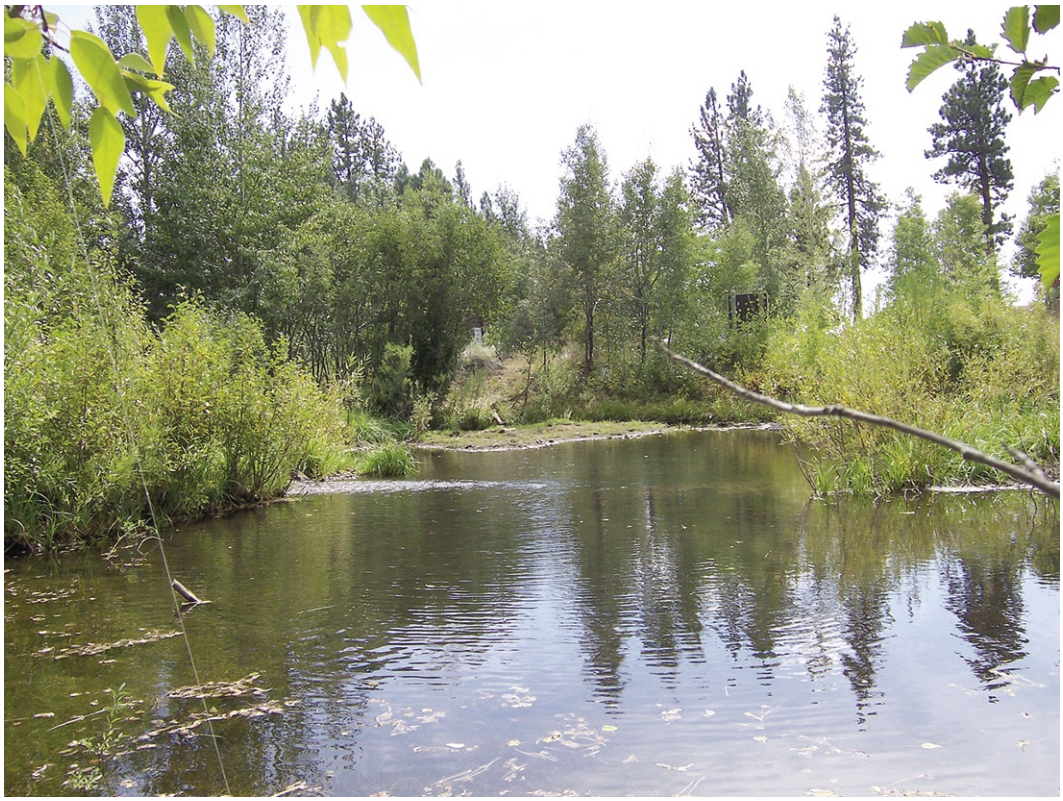
Intermittent Drainage Photo #2

Intermittent Drainage Photo #3

Intermittent Drainage Photo #4

SP-1a Griff Creek

SP-1b Griff Creek



SP-1b Oxbow Bend

U.S. Army Corps of Engineers

Verification Letter

DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, SACRAMENTO
CORPS OF ENGINEERS
1325 J STREET
SACRAMENTO, CALIFORNIA 95814-2922

REPLY TO
ATTENTION OF

February 26, 2007

Regulatory Branch (200600998)

Dan LaPlante
Placer County Department of Public Works
Pioneer Commerce Center
10825 Pioneer Trail
Suite 105
Truckee, California 96161

Dear Mr. LaPlante:

We are responding to your consultant's request for an approved jurisdictional determination for the Kings Beach Commercial Core Improvement project. This approximately 74.8-acre site is located adjacent to Lake Tahoe in Sections 13 and 19 on the Kings Beach 7.5 minute USGS quadrangle, Placer County, California.

Based on available information, we concur with the estimate of waters of the United States, as depicted on the October 2006 maps ("Exhibit A", sheets 1, 2 and 3; enclosed) prepared by Jones and Stokes. Approximately 0.719 acres of waters of the United States, including wetlands, are present within the survey area. These waters are regulated under Section 404 of the Clean Water Act. In addition, Lake Tahoe is regulated under Section 10 of the Rivers and Harbors Act. Lake Tahoe is a navigable waterway and the other features are either tributary to the Lake, or adjacent to a tributary.

This verification is valid for five years from the date of this letter, unless new information warrants revision of the determination before the expiration date. This letter contains an approved jurisdictional determination for your subject site. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and Request for Appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the South Pacific Division Office at the following address: Doug Pomeroy, Administrative Appeal Review Officer, Army Corps of Engineers, South Pacific Division, CESPD-PDS-O, 333 Market Street, Room 923, San Francisco, California 94105-2195, Telephone: 415-977-8035 FAX: 415-977-8129.

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division Office within 60 days of the NAP. Should you decide to submit an RFA form, it must be received at the above address by May 21, 2007. It is not necessary to submit an RFA form to the Division Office if you do not object to the determination in this letter.

You should provide a copy of this letter and notice to all other affected parties, including any individual who has an identifiable and substantial legal interest in the property. s request.

Please refer to identification number 200600998 in any correspondence concerning this project. If you have any questions, please contact Ms. Kathleen Dadey at our Nevada Regulatory Office, C. Clifton Young Federal Building, 300 Booth Street, Room 2103, Reno, Nevada 89509-1361, email *kathleen.a.dadey@usace.army.mil*, or telephone 775-784-5305. You may also find additional information on our website: *www.spk.usace.army.mil/regulatory.html.*

Sincerely,

ORIGINAL SIGNED BY

Ms. Kathleen Dadey
Acting Office Chief Reno Office

Enclosure(s)

Copy furnished without enclosure(s):

Scott Frazier, Jones & Stokes, 2600 V Street, Sacramento, California 95818-1914
Mary Fiore-Wagner, California Regional Water Quality Control Board, Lahontan Region, 2501 Lake Tahoe Boulevard, South Lake Tahoe, California 96150-7747
Tobi Tyler, California Regional Water Quality Control Board, Lahontan Region, 2501 Lake Tahoe Blvd., South Lake Tahoe, California 96150-7747
U.S. Fish and Wildlife Service, Wetlands Branch, 2800 Cottage Way, Suite W2605, Sacramento, California 95825-3901
U.S. Fish and Wildlife Service, Endangered Species Division, 2800 Cottage Way, Suite W2605, Sacramento, California 95825-3901
Mary Hays, California State Lands Commission, 100 Howe Ave., Ste. 100 South, Sacramento, California 95825-8202